WHAT IS CLAIMED IS:

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1. A variable displacement compressor including a wobble body that is arranged in a crank chamber formed gastight, such that an inclination angle of the wobble body can be changed with respect to a rotating shaft, and is driven by rotation of the rotating shaft, for wobbling motion, and pistons connected to the wobble body, for performing reciprocating motion in a direction along axis in accordance with the wobbling motion of the wobble body, to thereby suck refrigerant from a suction chamber into a cylinder, compress the refrigerant, and deliver the compressed refrigerant from the cylinder to a discharge chamber.

the variable displacement compressor comprising:

- a variable orifice arranged in a suction-side refrigerant passage leading to the suction chamber or a discharge-side refrigerant passage leading to the discharge chamber, such that an openness thereof can be set according to changes in external conditions;
- a differential pressure regulating valve arranged at a desired location in a first refrigerant passage leading from the discharge chamber to the crank chamber, and a second refrigerant passage leading from the crank chamber to the suction chamber, for sensing a differential pressure generated across the variable orifice and adjusting an openness thereof such that the differential

pressure becomes equal to a predetermined value; and

a fixed orifice arranged at a desired location in the first refrigerant passage and the second refrigerant passage,

wherein a flow rate of refrigerant flowing into the suction chamber or a flow rate of the refrigerant discharged from the discharge chamber is caused to become substantially constant.

- 2. The variable displacement compressor according to claim 1, wherein the variable orifice is arranged in the suction-side refrigerant passage, the differential pressure regulating valve being arranged in the first refrigerant passage, and the fixed orifice being arranged in the second refrigerant passage.
 - 3. The variable displacement compressor according to claim 1, wherein the variable orifice is arranged in the discharge-side refrigerant passage, the differential pressure regulating valve being arranged in the first refrigerant passage, and the fixed orifice being arranged in the second refrigerant passage.

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4. The variable displacement compressor according to claim 1, wherein the variable orifice is an electromagnetic proportional flow rate control valve including a solenoid enabling the predetermined value to

be externally set by a current value.

- 5. The variable displacement compressor according to claim 4, wherein the electromagnetic proportional flow rate control valve is switched to a minimum operation in which the flow rate of refrigerant is reduced substantially to zero by setting the current value which can be externally set for the solenoid, to zero.
- 6. The variable displacement compressor according to claim 5, wherein the variable displacement compressor is applied to a clutchless air conditioning system for an automotive vehicle.